

CLAIMS

Claim 1. Seamed felt for use in a paper machine, with a textile backing element (20, 60, 100) that  
5 comprises threads oriented transversely (30) and longitudinally (40) with respect to the direction of transport of the paper machine, and onto which fibres (90) are needled to form a felt structure, characterized in that at least some of the transverse  
10 threads (30) exhibit a twisted structure (10).

Claim 2. Felt according to Claim 1, characterized in that the twisted structure (10) has a substantially circular cross section, being made of at least three monofil (110).

15 Claim 3. Felt according to claim 1, characterized in that the textile backing element (20, 60, 100) is constructed in at least two-ply form.

20 Claim 4. Felt according to Claim 3, characterized in that two or more textile backing elements (60) are disposed one above another and between the upper and the lower layer fibres are embedded.

25 Claim 5. Felt according to Claim 3, characterized in that longitudinal (40) and/or transverse (30) threads of at least one upper layer (70) of the textile backing element (60, 100) are connected to longitudinal (40) and/or transverse (30) threads of at least one lower layer (80).

Claim 6. Felt according to claim 1,  
characterized in that the twisted structure (10) is  
constructed as a multiply twisted structure (50).

Claim 7. Felt according to claim 1,  
5 characterized in that the twisted structure (10) is  
constructed as a mixed structure comprising monofilts  
(110) and twisted and/or multiply twisted and/or spun  
and/or braided multifilts.

Claim 8. Felt according to claim 1,  
10 characterized in that monofilts (110) used to form the  
twisted structure have a diameter in the range from 0.1  
mm to 0.9 mm, preferably in the range from 0.1 mm to  
0.5 mm and especially preferably in the range from 0.1  
mm to 0.3 mm.

15 Claim 9. Felt according to claim 1,  
characterized in that the twisted structure (10) has a  
mean outside diameter in the range from 0.3 mm to 1.0  
mm, preferably in the range from 0.4 mm to 0.8 mm and  
especially preferably in the range from 0.4 mm to 0.6  
20 mm.

Claim 10. Felt according to claim 1,  
characterized by a transverse-thread density above 130  
transverse threads per 10 cm, preferably in the range  
from 130 to 200 transverse threads per 10 cm and  
25 especially preferably in the range from 140 to 180  
transverse threads per 10 cm.